Enter Document Control Number or Bar Code United States Environmental Protection Washington, DC 20460 ORIGINAL **Document Description** Date SAT P-02-21 TOXIC SUBSTANCES CONTROL ACT CONFIDENTIAL BUSINESS INFORMATION Does not contain National Security Information (E.O. 12065) EPA Form 7740-9 (rev. 10/92) Previous edition is obsolete

STRU	CTURE ACTIVITY	TEAM REPORT	ver. 04/98			
Case	#: P-02-002	?1	DCN:			
SAT Da	ite: 10/19/0	1	SAT Chair:	V. Nabholz	2	
Submit	ter:				3	
Chemic	al Name:				•	
CAS RN:	None		Trade Name:	440,		
Structu						
<u> </u>	r Formula:		<u> </u>	.,		
Molecular		WT%<500:		WT%<1000:	William to the transfer of the second of	
MP:	60.00 - 80.00	BP:		Eq. Wt:	40.0000004	
H2O Sol (<0.001	V.P.		<0.000001	1: -5
Max. Proc	d. Volume (kg/yr):		Physical State:		80	olid
use.						
	ng					
Re	lated Case Number	Case Rol	e Related	Case Numbers	Case Role	
Focus	Date: OCT 2 5 200	Results:	DPAP		-	
. 0000			Page 1 of 17	50	020000723	
			Page of /2	_		

STRUCTURE	ACTIVITY TEA	M REPORT V	er. 04/98			
Case #:	P-02-0022	D	CN:			
SAT Date:	10/19/01	SA	AT Chair:	V. Nabholz		
Submitter:						
Chemical Nam	e:					
CAS RN:	None	Tra	ade Name:			
Structure					,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
Molecular Formula	1:					
Molecular Wt.		WT%<500:		WT%1000:		
MP:		BP:	>500	Eq. Wt:		
H2O Sol (g/L):	C	0.002	V.P.	1	<0.000001	
Max. Prod. Volume	e (kg/yr):		Physical State:			Liquid
USE:						
	100	Casa Dala	Dolotod	Cana Ni walang	Cons Dala	
Related	Case Numbers	Case Role	Related	Case Numbers	Case Role	
Focus Date:	OCT 2 5 2001	Results:	DROK			

STRUCTURI	E ACTIVITY TEAM I	REPORT v	/er. 04/98	? (
Case #:	P-02-0023	D	CN:	-	
SAT Date:	10/19/01	SA	AT Chair:	V. Nabholz	
Submitter:					
Chemical Nam	ne:				
	_				
CAS RN:		Tra	ade Name:		
Structure	None				
o ii dotai o					
Molecular Formula	a: 		<u> </u>	.	
Molecular Wt.		%<500:		WT%<1000:	
MP:	BP:			Eq. Wt:	10.000004
H2O Sol (g/L):		000015	V.P.		<0.00001
Max. Prod. Volume USE:	e (kg/yr):		Physical State:		Liqu
fi C	1.1			1	
I Related	Case Numbers	Case Role	Related	Case Numbers	Case Role
Facus Print	OCT 2 5 2001	Paguite:	D 0. 12		
Focus Date:	JUI 2 200	Results:	NKOL		

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STRUCTUR	E ACTIVITY TEA	M REPORT	ver. 04/98		
Case #:	P-02-0024	D	CN:		
SAT Date:	10/19/01	S	AT Chair:	V. Nabholz	
Submitter:			•		
Chemical Nan	ne:		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		
PP					
CAS RN:	None	Tr	ade Name:		
Structure	7.0				
Molecular Formul					
Molecular Wt.		WT%<500:		WT%<1000:	
MP:		BP:	>500	Eq. Wt:	
H2O 8ol (g/L):	(0.002	V.P.		<0.000001
Max. Prod. Volum	ne (kg/yr):		Physical State:		Liquid
USE:					
S		1			_
Related	Case Numbers	Case Role	Related	Case Numbers	Case Role
Focus Date:	OCT 2 5 2001	Results:	DROF)	

STRUCTURE ACTIVITY TEAM REPORT 19 October 2001

CASE NUMBERS: P02-0021 to 0024

RELATED CASES:

CONCLUSIONS/DISCUSSIONS

TYPE OF CONCERN: <u>HEALTH</u> <u>ECOTOX</u>

LEVEL: 1-2 2

KEYWORDS: LUNG, AQUATOX-A, IRR-E,MM

SUMMARY OF ASSESSMENT:

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FATE:
liquids (P) except P020021=solid with mp 70 C (M);
log Kow for
                                    = 5.2 (SRC);
S = 0.960 \text{ mg/L at } 20 ^{\circ}\text{C (EAB)}, <1.0 \text{ mg/L (ICB)}, \text{ but could be}
dispersible in water at pH 7 based on analogs (RAD);
vp < 1.0E-6 mm Hg or torr at 25 °C (P);</pre>
bp > 500 °C (P);
H < 1.0E-8 (P);
log Koc = 4.8 (P);
log fish BCF = 0.75 (P);
POTW removal = 80 to 90% via sorption and biodegradation;
time for complete ultimate aerobic biodegradation = weeks to
months;
sorption to soils and sediments = very strong;
atmospheric oxidation half-life = 6.5 d via ozone, O3;
PBT Potential: P1B1T1
*CEB FATE: migration to ground water = negligible;
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HEALTH: Absorption of 0021 nil thru skin and GI tract and poor thru lungs based on physical/chemical properties and analogs; absorption of 0022 to 0024, poor all routes based on physical/chemical properties and analogs;

concern for lung toxicity if inhaled due to possible surfactancy; concern for irritation to mucous membranes and eyes due to surfactancy;

low to moderate concern for toxicity *CEB HEALTH: Exposures to humans: inhalation; XB: NO testing.

ECOTOX: Predicted (P) and measured (M) toxicity values in mg/L (ppm) are:

```
fish 96-h LC50
                     =>
                         10.0
                                 P TOC 2
                                 P TOC 2
daphnid 48-h LC50
                     ≔>
                         10.0
green algal 96-h EC50 =>
                                P TOC 2
                         10.0
                                M S,N WAF FLAG P020024
algal 72-h EC50 c
                     > 1000.0
fish chronic value
                     => 1.0
                                P TOC 2
                                P TOC 2
                          1.0
daphnid ChV
                     =>
```

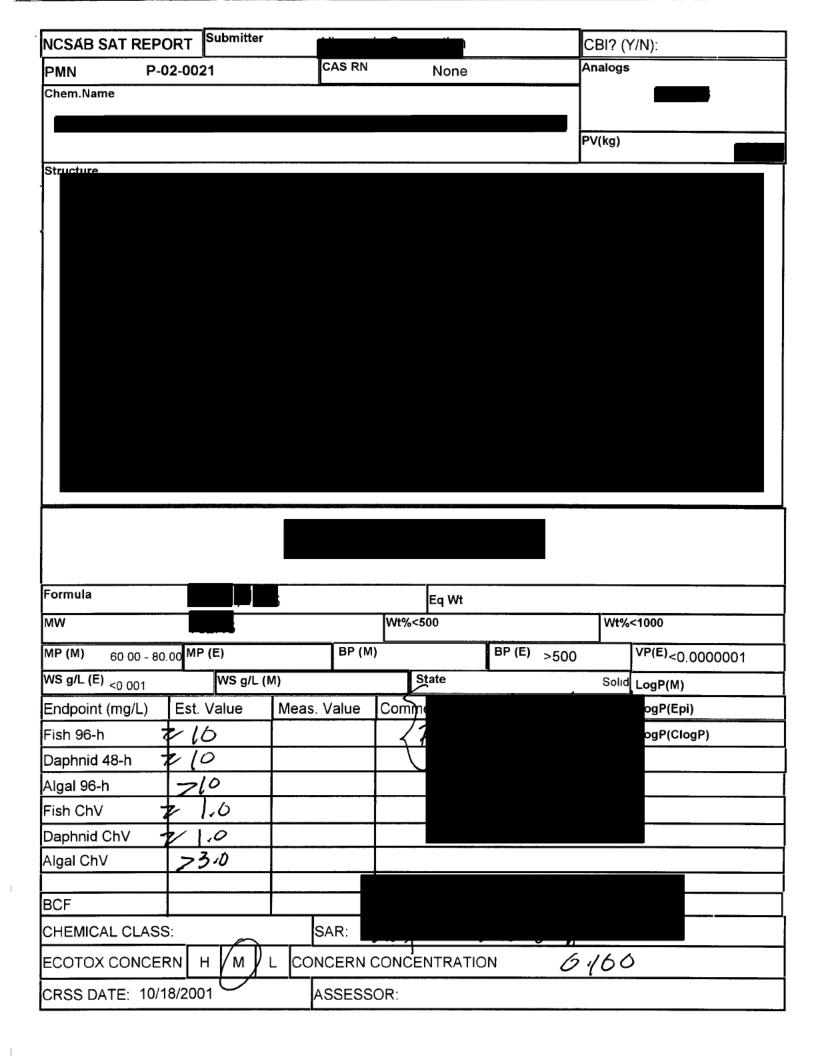
algal ChV => 1.0 P TOC 2 algal ChV c = 0.650 M S,N WAF FLAG Amount and ID of material in the WAF was not identified or measured, therefore, no sufficient for risk assessment;

Predictions are based on SAR-nearest analog analysis for three analogs with toxicity values of 0.500, 7.5, and 20 mg/L for fish acute; SAR chemical class = aliphatic amines and amphoteric ; pH7; effective concentrations based surfactants; on 100% active ingredients and nominal concentrations; hardness <180.0 mg/L as CaCO3; and TOC <2.0 mg/L; moderate concern for toxicity in water with TOC<2.0 mg/L; mitigation of toxicity expected in the presence of 10 mg TOC/L but amount is unknown; moderate concern for environmental risk at TOC = 10 mg/L; assessment factor = 10.0concern concentration = 0.100 *CEB ECOTOX: All releases to water; XB: No testing desired.

SAT Co-chairperson: Vince Nabholz, 260-1271

	BIOLOGICAL TEST INFORMATION						
Case Number:	P-02-0022, P-02-0023, P-02-0024	Date Received: 10/9/01	Rev. Init: ach	OECD Status: incomplete	Page: 1 of 1		
Other Data:	[X]Ecotox	[]Fate	[]	Water solubility/Log P		%ai	

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NCSAB SAT REP	ORT Submitter			CE	31? (Y/N):
PMN P-	02-0022	CAS RN	None	Ana	alogs
Chem.Name					
			þ		
_				PV(kg)
Structure					
Formula			Eq Wt		
MW			Wt%<500		Wt%<1000
MP (M)	MP (E)	BP (N	1)	BP (E) >500	VP(E) <0.000001
WS g/L (E) _{0 002}	WS g/L (M)	State	1	iquid LogP(M)
Endpoint (mg/L)	Est. Value	Meas. Value	Comments		LogP(Epi)
Fish 96-h				_	LogP(ClogP)
Daphnid 48-h					
Algal 96-h					
Fish ChV					
Daphnid ChV					
Algal ChV					
BCF					
CHEMICAL CLAS	S:	SAR:			
ECOTOX CONCE	RN H M	L CONCERN	CONCENTRATIO	N	
CRSS DATE: 10/	18/2001	ASSESS	SOR:		

NCSAB SAT REP	ORT Submitter	411	<u> </u>	СВІ	? (Y/N):
	02-0023	CAS RN	None	Anal	
Chem.Name					
				PV(k	g)
Structure					
ļ					
<u> </u>					
		•			_
Formula			Eq Wt	. 100.00	
MW			Wt%<500	v	Vt%<1000
MP (M)	MP (E)	BP (M)	BP (E) >500	VP(E) <0.000001
WS g/L (E).0000015	WS g/L ((M)	State	Lic	Quid LogP(M)
Endpoint (mg/L)	Est. Value	Meas. Value	Comments		LogP(Epi)
Fish 96-h	,				LogP(ClogP)
Daphnid 48-h					
Algal 96-h					
Fish ChV					
Daphnid ChV					
Algal ChV					
DOE	1				
BCF CHEMICAL CLAS	<u> </u>	LSAR:			
ECOTOX CONCE		L CONCERN (CONCENTRATIC	N	
CRSS DATE: 10/	18/2001	ASSESS	OR:		

NCSAB SAT REPO	ORT Submitter			СВІ	? (Y/N):
PMN P-0	2-0024	CAS RN	None	Anal	ogs
Chem.Name					
				PV(k	g)
Structure					
ĺ					
ļ					
Formula		M	Eq Wt		
MW			Wt%<500	'	Vt%<1000
MP (M)	MP (E)	BP (M	1)	BP (E) >500	VP(E) <0.000001
WS g/L (E) _{0.002}	WS g/L (N	M)	State	Li	quid LogP(M)
Endpoint (mg/L)	Est. Value	Meas. Value	Comments		LogP(Epi)
Fish 96-h					LogP(ClogP)
Daphnid 48-h					
Algal 96-h					
Fish ChV					
Daphnid ChV					
Algal ChV					
BCF					
	<u> </u>	SAR:			
CHEMICAL CLASS					
ECOTOX CONCE		L CONCERN	CONCENTRATIO	N	
CRSS DATE: 10/1	18/2001	ASSESS	SOR:		

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ATTENDEES	SIGNATURE
CHEMISTRY	
Paul Bickart Diana Darling Rich Engler Greg Fritz Daniel Lin Kathy Schechter	Kathy Schechty
Bob Boethling	
David Lynch Gary Thom	gamon
HEALTH	
Katherine Anitole Michael Cimino Leonard Keifer David Lai Jim Murphy Deborah Norris Ronald Ward Yin Tak Woo	Filipe Cains Filipe Ra MEMO MEMO
ENVIRONMENTAL EFFECTS	
Gordon Cash Vince Nabholz Maggie Wilson	maggiewilson
SAT CHAIRPERSON/OTHER	
Rebecca Jones Leonard Keifer Vince Nabholz	Mels